Big Cypress Swamp

Project ID: R09Y13P20

<metadata>
- <idinfo>
- <citation>
- <citeinfo>
<title>**Big Cypress Swamp - Anthropagenic Wetland Changes**</title>
<geoform>**vector digital data**</geoform>
</citeinfo>
</citation>
- <descript>
<abstract>**Historic 2002, National Wetlands Inventory polygons, Big Cypress Swamp Boundary, and 2010, one-meter, true-color, NAIP imagery were received from the U.S. Fish and Wildlife Service. A study area was determined and the NWI polygons were clipped to this boundary. The wetland polygons then had a new field added to the attribute table, Status_Trends_2002. In this field, system/class codes were populated from the NWI column. Examples: PEM1/SS1C = PEM, PAB3F = PUB, PUBGx = PUB, L2USC = LAC, R2USA = RIV. The dominant class became the only class listed. Then a union was performed between the wetland polygons and the study area boundary to replace all the upland gaps. These polygons received a code of U, since it was unknown what the upland type was in 2002. A copy was made of the 2002 Status and Trends layer and it was titled, Status_Trends_2010. A column was added and wetland codes populated for 2010 status and trends wetland attributes. Status_Trends_2010 became the working database and Status_Trends_2002 remained the historic collateral data. Data from Big Cypress Swamp was delineated using heads-up digitizing in ESRI, ArcGIS 10.0. Wetland interpreters and GIS analysts cut and coded the polygons along boundaries that had changed over the course of eight years. Most focus was place on areas of anthropogenic change, or man-made influence. All PUB wetlands received a special modifier: n - natural pond, i - industrial pond, f - farm pond, a - aquaculture, or u - urban aesthetic pond. All U uplands received an identifier, UA - agriculture, UB - urban, UFP - forested plantation, UO - other upland, or URD - residential. After changes to the polygons had been edited, a rigorous QAQC process was completed. The entire dataset was panned through to ensure accuracy of linework and attribute. Topology was run to prevent overlaps, gaps, and the polygons cover the entire extent of the study area. The attribute table was sorted and queried for missing or eroneous codes. An acres field was added and calculated. Finally the database was assembled and compacted for delivery.**</abstract>
<purpose>**Data from status and trends provide important long-term trend information about specific changes and places and the overall status of wetlands in the United States. The historical data base that the Service has developed through Status and Trends, provides photographic evidence of land use and wetlands extent dating back to the 1950s. This provides an accurate record to assist in future restoration efforts.**</purpose>
</descript>
- <status>
<update>**None planned**</update>
</status>
- <spdom>

+ <bounding>
</spdom>
- <keywords>
- <theme>
<themekt>**None**</themekt>
<themekey>**U.S. Fish and Wildlife Services, Status and Trends, National Wetland Inventory, GeoSpatial Services, Saint Marys University of Minnesota**</themekey>
</theme>
- <place>
<placekt>**None**</placekt>
<placekey>**Big Cypress Swamp National Wildlife Refuge, Fort Meyers, Florida**</placekey>
</place>
- <temporal>
<tempkt>**None**</tempkt>
<tempkey>**2002, 2010**</tempkey>
</temporal>
</keywords>
<accconst>**None**</accconst>
<useconst>**None**</useconst>
<datacred>**Geospatial Services - Saint Marys University of Minnesota, U.S. Fish and Wildlife Service**</datacred>
<native>**Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcGIS 10.0.5.4400**</native>
</idinfo>
- <dataqual>
- <lineage>
- <srcinfo>
<typesrc>**None**</typesrc>
<srccontr>**National Wetlands Inventory - U.S. Fish and Wildlife Service**</srccontr>
</srcinfo>
- <procstep>
<procdesc>**1. Download NWI polygons from U.S. Fish and Wildlife Service. 2. Export to geodatabase with NAD 83 Albers spatial reference. 3. Clip to Big Cypress Swamp study area boundary. 4. Add Status and Trends 2002 column to attribute table. 5. Populate 2002 Status and Trends code according to NWI attribute. 6. Explode all polygons and save edits. 7. Perform a union on the dataset to fill in holes with upland master polygon. 8. Make a copy of the dataset, title one 2002 and the other 2010. 9. Add Status and Trends 2010 column to the 2010 dataset. 10. Cut the 2010 polygons and attribute according to the 2010 imagery. a. Focus on anthropogenic change (human-influenced) i. Wetlands cut, drained, and filled to convert to homes, businesses, and farms. ii. Wetlands converted to transportation routes. iii. Construction of farm, industrial, and aesthetic ponds. b. Wetland polygons that have 50 percent or more change by area or class are updated. c. Attributes include: M1, M2, E1UB, E2EM, E2SS, LAC, RIV, PUBn, PUBa, PUBf, PUBu, PUBi, PEM, PSS, PFO, Pf, and U. 11. Pan through entire study area looking for linework and attribute inconsistencies. 12. Run quality assurance and quality control tools. a. Explode all polygons. b. Remove all null geometry polygons. c. Merge all polygons below minimum mapping unit. d. Remove all null and erroneous attributes. e. Run automated topology for gaps and overlaps. f.**

Repeat steps a. through e to ensure database precision and accuracy. g. Finalize and compact database.</procdesc>
</procstep>
</lineage>
</dataqual>
- <spdoinfo>
<direct>**Vector**</direct>
- <ptvctinf>
- <sdtsterm>
<sdtstype>**GT-polygon composed of chains**</sdtstype>
<ptvctcnt>**35607**</ptvctcnt>
</sdtsterm>
- <sdtsterm>
<sdtstype>**GT-polygon composed of chains**</sdtstype>
<ptvctcnt>**21010**</ptvctcnt>
</sdtsterm>
- <sdtsterm>
<sdtstype>**GT-polygon composed of chains**</sdtstype>
<ptvctcnt>**1**</ptvctcnt>
</sdtsterm>
</ptvctinf>
</spdoinfo>
- <spref>
- <horizsys>
- <planar>
- <mapproj>
<mapprojn>**Albers Conical Equal Area**</mapprojn>
- <albers>
<stdparll>**29.5**</stdparll>
<stdparll>**45.5**</stdparll>
<longcm>**-96.0**</longcm>
<latprjo>**23.0**</latprjo>
<feast>**0.0**</feast>
<fnorth>**0.0**</fnorth>
</albers>
</mapproj>
- <planci>
<plance>**coordinate pair**</plance>
- <coordrep>
<absres>**0.0001**</absres>
<ordres>**0.0001**</ordres>
</coordrep>
<plandu />
</planci>
</planar>
- <geodetic>
<horizdn>**D North American 1983**</horizdn>
<ellips>**GRS 1980**</ellips>
<semiaxis>**6378137.0**</semiaxis>

```
<denflat>298.257222101</denflat>
</geodetic>
</horizsys>
</spref>
- <metainfo>
<metd>20130531</metd>
- <metc>
- <cntinfo>
- <cntorgp>
<cntorg>GeoSpatial Services</cntorg>
<cntper>Andy Robertson</cntper>
</cntorgp>
<cntpos>Project Manager</cntpos>
- <cntaddr>
<addrtype>unknown</addrtype>
<address>700 Terrace Heights</address>
<city>Winona</city>
<state>Minnesota</state>
<postal>55987</postal>
<country>U.S.</country>
</cntaddr>
<cntvoice>507-457-8746</cntvoice>
<cntfax>507-457-8650</cntfax>
<cntemail>aroberts@smumn.edu</cntemail>
<hours>8am - 4pm</hours>
</cntinfo>
</metc>
<metstdn>FGDC Content Standard for Digital Geospatial Metadata</metstdn>
<metstdv>FGDC-STD-001-1998</metstdv>
<mettc>local time</mettc>
</metainfo>
</metadata>
```